Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, mailing address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

A Molecular Single Electron Transistor (MSET) Detector Device

F 3	cification of which (check a	pplicable box(s)):			
LJ	is attached hereto		LLC Application Corigl No.	/Attr	y. Dkt. No IP/P7343/USW)
Ll	was filed on		as U.S. Application Serial No.	on 5 November 3	•
	was filed as PCT Internatio		1 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	oli Sinovellinei	2004
and (if a	applicable to U.S. or PCT at	oplication) was amende	ed on ·		
amenda defined listed b	ment referred to above. I ad I in 37 C.F.R. 1.56. I hereby elow and have also identifie priority is claimed or, if no pr	cknowledge the duty to claim foreign priority to d below any foreign ar	ontents of the above identified specification disclose to the Patent Office all information penefits under 35 U.S.C. 119/365 of any optication for patent or inventor's certificate the filing date of this application:	foreign application(s) f	or patent or inventor's certifical
Priority	Foreign Application(s): Application Numbe		Country		Day/Month/Year Filed
	0326049.4		GB		7 November 2003
heret	Application Numbe		Date/Month/Year Filed prior United States and PCT internations	al applications listed ab	ove or below:
					Status: patented
Prior l	J.S./PCT Application(s):		Day/Month/Year Filed		pending, abandoned
Applic	ation Serial No. PCT/GB2004/00469	۵	5 November 2004		Pending
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[X] See attached sheet(s) for additional inventor(s) information!!

Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign)

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	Inventor's Signature:			BUCKLE	Date:	Z.5 [0 +/ 2008
	Inventor:	Philip /	D MI	(last)		(citizenship)
	Decidence: /city)	(first) Malvern	WII	(state/country) Worces	tershire.	United Kingdom
	Residence: (city) Mailing Address:	OinetiO Limited Malvern Te	chnology Centre	St Andrews Road, Malvern, V	Vorceste	rshire
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١.	Inventor's Signature:		دمسر		Date:	25/04/2006
	Inventor:	Timothy /	//	COX		GB
		(first) / min	// MI	(last)		(citizenship)
	Residence: (city)	Malvern		(state/country) Worces	tershire,	United Kingdom
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5.	Inventor's Signature:	Names		GEDDES	, Date.	GB
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6.	Inventor's Signature:	V. H. VA	/ }	4	Date:	25/04/06.
U .	Inventor:	John	Н	JEFFERSON		GB
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7.	Inventor's Signature:	Russell	Α	NOBLE		GB
	Inventor:	(first)	MI	(last)		(citizenship)
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_	Inventor's Signature:	6/1 (/			Date:	04/04/2006
9.	Inventor:	David	J	COMBES		GB
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	Residence: (city)	A deals comm		(state/country) Worce	estershire	e, United Kingdom
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Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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A Melacular Single Electron Translator (MSET) Detector Device

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וו ו	is attached hereto				(Atty. Dkt. No 1P/P7343/USW)
ij	was filed on		as U.S. Application Serial No.		• •
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amend defined	ment referred to above. I ac in 37 C.F.R. 1.56. I hereby	knowledge the duty to o claim foreign priority bo d below any foreign app	stents of the above identified specifications to the Patent Office all informers in the properties of the patent of the filling date of this application:	any foreign application	(s) for patent or inventor's certification
Priority	/ Foreign Application(s):		• *		Day/Month/Year Filed
•	Application Number	•	Country		7 November 2003
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I heret	by claim the benefit under 35	i U.S.C. 120/365 of all p	rior United States and PCT interna	ilonai applications liste	a 2504c di 50.0
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[X] See attached sheet(s) for additional inventor(s) information!!

Serial No. Page 2

	Inventor's Signature:	500	D	BUCKLE	Date:	GB
	Inventor:	Philip (first)	MI	(last)		(citizenship)
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	Mailing Address:	QinetiQ Limited, Malvern	Technology Centre, S	t Andrews Road, Malvern, W	Vorcestersh	ire
	(Zlp Code)	WR14 3PS United Kingo	lom			
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	Inventor's Signature:	Timathy		COX	Date.	GB
	Inventor:	Timothy (first)	МI	(last)		(citizenship)
	Residence: (city)	Malvem		(state/country) Worces	tershire, Ur	ited Kingdom
	Mailing Address:	QinetiQ Limited, Malvern	Technology Centre, S	t Andrews Road, Malvern, V	Vorcestersh	nire
	(Zip Code)	WR14 3PS United Kingo	iom			
		ئىمىر () د .	DE		Date:	30/3/06
	Inventor's Signature:	Noman	J	GEDDES	<u> </u>	GB
	Inventor:	(first)	MI	(last)		(citizenship)
	Residence: (city)	Malyara		(state/country) Worces	tershire, Ur	nited Kingdom
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	(Zip Code)	WR14 3PS United Kingd	om			
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	Inventor's Signature:		н	JEFFERSON	. Daile	GB
	Inventor:	John (first)	MI	(last)		(citizenshlp)
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	Inventor:	(first)	MI	(last)		(citizenship)
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	(Zip Code)	WR14 3PS United King	dom			
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	Inventor's Signature:		С	SAGE		GB
	Inventor:	lan (first)	МI	(last)		(citizenship)
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	(Zip Code)	WR14 3PS United King	dom	<u> </u>		
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	Inventor's Signature:	Devid	<u>j</u>	COMBES		GB
	Inventor:	David (first)	MI	(last)		(citizenship)
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	(Zip Code)	WR14 3PS United King	dom			
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Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, mailing address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the Invention entitled:

maner v	Miloti io ciaminoa ana io	A Molecular Singl	e Electron Transistor (MSET) De	tector Device	
the spec	cification of which (check a	pplicable box(s)):			
	is attached hereto				444 DIV N. ID/DT040/LICHA
11	was filed on		as U.S. Application Serial No.		(Atty. Dkt. No IP/P7343/USW)
[x]	was filed as PCT Internation	nai application No.	PCT/GB2004/004699	on 5 Novem	ber 2004
	pplicable to U.S. or PCT a		d on		
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amendn defined listed be which p	nent referred to above. I a in 37 C.F.R. 1.56. I hereb elow and have also identifie riority is claimed or, if no pi	cknowledge the duty to o claim foreign priority be d below any foreign app	ntents of the above identified speci disclose to the Patent Office all info enefits under 35 U.S.C. 119/365 of ollcation for patent or inventor's ce the filing date of this application:	rmation known to me to any foreign application	aims, as amended by any be material to patentability as (s) for patent or inventor's certificate ate before that of the application on
Priority	Foreign Application(s):		Country		Day/Month/Year Filed
	Application Numbe	r	GB		7 November 2003
	0326049.4				
	Application Numbe	r	United States provisional application Date/Month/Year Filed		d above or below:
I hereby	y claim the benefit under 3:	5 U.S.C. 120/365 of all p	rior United States and PCT Interna	ational applications lister	a good of dolow.
Prior U Applica	.S./PCT Application(s): ation Serial No. PCT/GB2004/00469	9	Day/Month/Year Filed 5 November 2004	·	Status: patented pending, abandoned Pending
be true Impriso applica 4000 (t owner's	; and further that these star inment, or both, under Sec- tion or any patent issued the o whom all communication s/owners' attorneys to pros	tements were made with tion 1001 of Title 18 of the hereon. And on behalf of s are to be directed) and ecute this application ar	the knowledge that willul laise so, the United States Code and that su if the owner(s) hereof, I hereby apply the attorneys of: Custome	ch willful false statemen point Nixon & Vanderhyi er Number 231 atent and Trademark Off	e P.C., telephone number 703-816- 17, individually and collectively fice connected therewith and with the act and rely solely on instructions
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1.	Inventor's Signature:			Da	
	Inventor:	Timothy		ASHLEY	GB
		(first)	Mi	(last)	(citizenship)
	Residence: (city)	Mahara	(state	/country) Worcesters	hire, United Kingdom
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	(Zip Code)	WR143PS United K	ingdom		
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2.	Inventor's Signature:			BRUNSON	GB
	Inventor:	Kevin	M Mi	(last)	(citizenship)
	D -11 (-11-3)	(first)	(state	(country) Worcesters	hire, United Kingdom
	Residence: (citý)	Malvern	vern Technology Centre, St Andre	ws Road, Malvern, Word	cestershire
	(7in Cada)	WR14 3PS United K	ingdom		
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[X] See attached sheet(s) for additional inventor(s) information!!

Serial No. Page 2

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3.	Inventor's Signature:	Philip	D	BUCKLE		GB
	Inventor:		MI	(last)		(citizenship)
	Decidence (site)	(first)	7411		tershire, Unite	
	Residence: (city)	Malvern	Taska alami Contro S	St Andrews Road, Malvern, V	Vorcestershir	<u> </u>
	Mailing Address:	QinetiQ Limited, Malvern I	echnology Centre, 3	i Aldrews Hoad, Malvern, v	VOICESIEISIIII	
	(Zip Code)	WR14 3PS United Kingdo	om		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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4.	Inventor's Signature:			COX	Date	GB
	Inventor:	Timothy	1			(citizenship)
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5.	Inventor's Signature:				Date:	
	Inventor:	Norman	J	GEDDES		GB
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c	Inventor's Signature:				Date:	
6.	_	John	Н	JEFFERSON		GB
	Inventor:	(first)	MI	(last)		(citizenship)
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	Mailing Address:	QinetiQ Limited, Malvern	recrinology Centre,	St Andrews moad, Marvern,	V O O C C C C C C C C C C C C C C C C C	
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7.	Inventor's Signature:	Vingan	Llobie		Date: <u>21</u>	GB GB
	Inventor:	Russell	Α	NÖBLE		
		(first)	Ml	(la <u>st)</u>		(citizenship)
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	Mailing Address:	QinetiQ Limited, Malvern	Technology Centre,	St Andrews Road, Malvern,	Worcestershi	re
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8.	_	lan	С	SAGE		GB
	Inventor:	(first)	MI	(last)		(citizenship)
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	Residence: (city)	OinstiO Limited Malvern	Technology Centre	St Andrews Road, Malvern,	Worcestersh	ire
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	(Zip Code)	WRI4 3PS United Kingat	JIII			
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9.	Inventor's Signature:			COMBES		GB
	Inventor:	David	J	(last)		(citizenship)
		(first)	MI		otorchiro IIn	ited Kingdom
	Residence: (city)	Malvern		(state/country) Worce	Morgantersh	iro
	Mailing Address:			St Andrews Road, Malvern,	VVOICEStersi	me
	(Zlp Code)	WR14 3PS United Kingdo	om			
10.	Inventor's Signature:				_ Date:	
	Inventor:					
		(first)	Mi	(last)		(citizenship)
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11.	Inventor's Signature:					
	Inventor:	(C==1)	MI	(last)		(citizenship)
		(first)	IVH	(state/country)		.,
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	Mailing Address:					
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12.	Inventor's Signature:					
	Inventor:		4.41	(1001)		(citizenship)
		(first)	MI	(last)		, , ,
	Residence: (city)			(state/country)		
	Malling Address:					
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Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

RULE 53 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, mailing address and clizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first end joint inventor (if plural names are listed below) of the subject matter which is dalmed and for which a patent is sought on the invention entitled:

I horoby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below. Application Number Date/Month/Year Filed I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT International applications listed above or below: Prior U.S./PCT Application(s): Application Sorial No. Day/Month/Year Filed Day/Month/Year Filed	maller	which is dalmod and for wh		n the invention entitled: to Electron Translator (M	SET) Dotector De	ıvicə	, ,
west filed as PCT International application No. PCT/GB2004/004699 on 5 November 2004 and (if applicable to U.S. or PCT application) was amonded on the probabile to U.S. or PCT application) was amonded on the probability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 118780 of any foreign application(s) in patients of the above. I seknowledge the duty to disclose to the Patient Office all information known to me to be material to patientability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 118780 of any foreign application(s) patient or inventor's certificate having a filing data before that of the application replication in priority is claimed on any easi of identified below any foreign applications. Protrictly Foreign Application Number Protrictly Foreign Application(S): Application Number Country Country Capture Capt	[]	is attached hereto	ipplicable box(s)):	as U.S. Application Se	erial No.	(A)N F	0kt No 1P/P7343/119W/
amendment reterred to above. I suknowledge the duty to disclose to the Patient Office all Information known to me to be material to patentiality as defined in 37 C.P.R. 1.56. I hereby dain foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patient or inventor's certificate having a filing date before that of the application which priority is claimed or, if no priority is claimed or, if no priority is claimed, before the filing date of this application. Priority Foreign Application(s): Application Numbor Country GB Tovernber 2003 I horoby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below. Application Numbor Date/Month/Year Filed I hereby claim the benefit under 35 U.S.C. \$119(e) of any United States and PCT International applications listed above or below: Prior U.S./PCT Application(s): Application Sorial No. Day/Month/Year Filed Day/Month/Year Filed Status: patiented ponding, abandoned produced that all statements made on information and belief are believed by true; and further that these statements were made with the knowledge that willfulf false statements made on Information and belief are believed by true; and further that these statements were made with the knowledge that willfulf false statements and the like so made are punishable by fine o imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willfulf false statements are to be directed) and the atterneys of. Customer Number 23117, individually and collectivel owner/silveners interneys to prosecute this application or any patent tasue thereon. And on behalf of the owner(s) hereof, I horoby appoint Nature Number, and to act and ruly solely on instruction directly communication from the person, assignoo, atterney, firm, or other organization sending instructions to Nixon & Vanderhye to add or dailot attorneys forn that Cuetomer Number, and to act and ruly solely on instruction first powers. Inventor's Signature: Inv	[x]	wee filed as PCT Internation	• •	PCT/GB2004/00469		• •	· · · · · · · · · · · · · · · · · · ·
I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(a) listed below. Application Numbor I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT International applications listed above or below: Prior U.S./PCT Application(s): Application Sorial No. PCT/GB2004/004699 I hereby declare that all statements made horein of my own knowledge are true and that all statements made on information and belief are believed be true; and further that these statements were made with the knowledge are true and that all statements and the like so made are punishable by fine o imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint vilson & Vanderhye P.C., telephone number 703-64000 (to whom all communications are to be directed) and the atterneys of: Customer Number 23117, individually and collectivel owner(s)owners' attorneys to prosecute this application and to transact all business in the Patent and Trademank Office connected therewith and wiresulting patient. I also subtrotze Nixon & Vanderhye to add or delote attorneys from that Customer Number, and to act and ruly solely on instruction directly communications are subtroty. Inventor: Inventor: Inventor: Inventor: Residence: (city) Malling Addrees: (Zip Code) Inventor: Kevin M BRUNSON (GB (citizenship) Mallyam (state/country) Worcestershire. United Kingdom Qinetito Umited, Malvern Technology Centre, St Andrews Road, Malvern, Worcestershire. United Kingdom Qinetito Umited, Malvern Technology Centre, St Andrews Road, Malvern, Worcestershire.	amend defined listed b which (ment referred to above. I e i in 37 C.F.R. 1.56. I hereb below and have also identifi priority is claimed or, if no p r Foreign Application(s):	cknowledge the duty to o y claim foreign priority be ed below any foreign app riority is claimed, before	disclose to the Patent Officenefits under 35 U.S.C. 11 billion for patent or invertible filling date of this application.	te all information k 9/365 of any forely stors certificate ha	nown to me to be ma in application(s) for p	iterial to patentability as ratent or Inventor's certifica ore that of the application of
Application Number Interest			r				7 November 2003
Prior U.S./PCT Application(s): Application Sorial No. PCT/GB2004/004699 I hereby declare that all statements made herein of my own knowledge or true and that all statements made on information and belief are believed be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine of imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint viticon & Vanderhye P.C., letisphone number 703-84000 (to whom all communications are to be directed) and the attorneys of: Customer Number 23117, individually and collectively owner's attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and wire resulting patent. I also authorize Nixon & Vanderhye to add or delote attorneys from that Customer Number, and to act and rely solely on instruction directly communicated from the person, assignoo, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s). Inventor's Signature: Inventor: Residence: (city) Malling Address: (Zip Code) Inventor's Signature: Mally M		Application Number	r ·	Date/Month/Year F	lled		or below:
the true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine of imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of application or any patent issued thereon. And on behalf of the owner(s) hereof, I horeby appoint Nixon & Vanderhye P.C., telephone number 703-64000 (to whom all communications are to be directed) and the attorneys of: Customer Number 23117, individually and collective owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with resulting patent. I also authorize Nixon & Vanderhye to add or delete attorneys from that Customer Number, and to act and rely solely on instruction directly communicated from the person, assigned, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s). Inventor's Signature: Inventor: Inventor's Signature:	Prior l	J.S./PCT Application(s):		Day/Month/Year F	lled		Statue: patented ponding, abandoned Pending
owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith end will resulting patent. I also authorize Nixon & Vandorhyle to add or delote attorneys from that Customer Number, and to act and rely solely on instruction directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhyle on behalf of the owner(s). 1. Inventor's Signature: Inventor: Inventor: Residence: (city) Malvern QinetiQ Limited, Malvern Technology Centre, St Andrews Road, Malvern, Worcestershire (Zip Code) Malvern QinetiQ Limited, Malvern Technology Centre, St Andrews Road, Malvern, Worcestershire WR14 3PS United Kingdom 2. Inventor's Signature: Inventor: Inventor's Signature: Inventor's Signature: Inventor's Signature: Inventor's Signature: Malvern QinetiQ Limited, Malvern Technology Centre, St Andrews Road, Malvern, Worcestershire WR14 3PS United Kingdom QinetiQ Limited, Malvern (state/country) Worcestershire, United Kingdom QinetiQ Limited, Malvern Technology Centre, St Andrews Road, Maivern, Worcestershire, United Kingdom QinetiQ Limited, Malvern Technology Centre, St Andrews Road, Maivern, Worcestershire	be true impriso applica	e; and further that these sta onment, or both, under Sec ation or any patent issued ti	ernents were made with lion 1001 of Title 18 of th nereon. And on behalf o	the knowledge that willful he United States Code and f the owner(s) hereof, I ho	false statements a that such willful fa reby appoint Nixor	and the like so made alse statements may a & Vanderhye P.C.,	are punishable by fine or jeopardize the validity of t lelephone number 703-81
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[X] See attached sheet(s) for additional inventor(s) information!!

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Serial No. Page 2

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